

IN THE CLAIMS

Claims 1-2. (canceled)

Claim 3. (currently amended) ~~The terminal according to claim 2,~~ A terminal which receives a physical layer frame including an upper layer frame relative to an upper layer above a physical layer and which has power-saving mode involving operations more energy-efficient than normal operations, comprising:

power-saving operation time calculating means for calculating a power-saving operation time in accordance with a length of said upper layer frame extracted from a header of said physical layer frame;

address detecting means which, after detecting a destination address from a header of said upper layer frame upon receipt thereof and determining that said upper layer frame is not destined for said terminal, gives an instruction for transition into said power-saving mode starting from the beginning of a body of said upper layer frame; and

means which, upon elapse of said power-saving operation time calculated in response to said instruction for transition into said power-saving mode, gives an instruction to cancel said power-saving mode;

wherein said power-saving operation time calculating means calculates as said power-saving operation time a time which is

longer than a first time corresponding to said length of said upper layer frame minus the length of said header of said upper layer frame and which is less than a second time corresponding to said first time supplemented with a maximum frame interval.

Claim 4. (currently amended) ~~The terminal according to claim 2,~~ A terminal which receives a physical layer frame including an upper layer frame relative to an upper layer above a physical layer and which has power-saving mode involving operations more energy-efficient than normal operations, comprising:

power-saving operation time calculating means for calculating a power-saving operation time in accordance with a length of said upper layer frame extracted from a header of said physical layer frame;

address detecting means which, after detecting a destination address from a header of said upper layer frame upon receipt thereof and determining that said upper layer frame is not destined for said terminal, gives an instruction for transition into said power-saving mode starting from the beginning of a body of said upper layer frame; and

means which, upon elapse of said power-saving operation time calculated in response to said instruction for transition into said power-saving mode, gives an instruction to cancel said power-saving mode;

wherein said power-saving operation time calculating means calculates as said power-saving operation time a time obtained by adding a maximum frame interval to said length of said upper layer frame minus the length of said header of said upper layer frame.

Claims 5-15. (canceled)